

Receiving Report

Date: 13/0/8
 Supplier: FAXSOL

Batch No: M120552
 Dart P/O: 19782

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection: 13/05/08 N/A ☒
 Work Order: 519 N/A ☐

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M2024	35063	384	0	0	384	
M2024	35080	96	0	0	96	
M606	1568.000	144	0	0	144	

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 13/0/8
 Date: [Signature]
 Received/Costing: [Signature]
 Initial: [Signature]

Location _____

Purchase Order Receipt Listing

Wednesday, May 08, 2013 10:53:10 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO19782 Receipt Dates from 5/8/2013 to 5/8/2013 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO19782	3		M304S18GA	sf	5/10/2013	5/8/2013	128.0000	\$3.26	0.0000	0	\$416.89
CAD	No		304/316 .050 Sheet	sf	128.0000	DESJ02		\$416.89	0.0000	0	
			125552								
	4		M304S24GA	sf	5/10/2013	5/8/2013	64.0000	\$2.06	0.0000	0	\$131.68
	No		304/316 .025 Sheet	sf	64.0000	DESJ02		\$131.68	0.0000	0	
			125552								
	5		M5052H32S.032	sf	5/10/2013	5/8/2013	96.0000	\$1.01	0.0000	0	\$96.78
	No		5052-H32 .032 Sheet	sf	96.0000	DESJ02		\$96.78	0.0000	0	
			125552								
	6		M5052H32S.040	sf	5/10/2013	5/8/2013	64.0000	\$1.09	0.0000	0	\$69.48
	No		5052-H32 .040 Sheet	sf	64.0000	DESJ02		\$69.48	0.0000	0	
			125552								
	7		M5052H32S.080	sf	5/10/2013	5/8/2013	64.0000	\$2.26	0.0000	0	\$144.92
	No		5052-H32 .080 Sheet	sf	64.0000	DESJ02		\$144.92	0.0000	0	
			125552								
	8		M5052H32S.090	sf	5/10/2013	5/8/2013	64.0000	\$2.54	0.0000	0	\$162.79
	No		5052-H32 .090 Sheet	sf	64.0000	DESJ02		\$162.79	0.0000	0	
			125552								
	10		M6061T6R0.500	f	5/10/2013	5/8/2013	60.0000	\$0.84	0.0000	0	\$50.62
	No		6061-T6 Round Bar	f	60.0000	DESJ02		\$50.62	0.0000	0	
			.500"								
			125552								
	11		M6061T6R0.625	f	5/10/2013	5/8/2013	48.0000	\$0.76	0.0000	0	\$36.69
	No		6061-T6 Round Bar	f	48.0000	DESJ02		\$36.69	0.0000	0	
			.625"								
			125552								
	12		M6061T6R0.750	f	5/10/2013	5/8/2013	108.0000	\$1.01	0.0000	0	\$109.34
	No		6061-T6 Round Bar	f	108.0000	DESJ02		\$109.34	0.0000	0	
			.750"								
			125552								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name	VC-COP001	Thyssenkrupp Materials CA Ltd									
PO19782	13		M6061T6R0.875 f		5/10/2013	5/8/2013	36.0000	\$1.36	0.0000	0	\$49.03
CAD	No		6061-T6 Round Bar f 3 .875" 125552		36.0000	DES102		\$49.03	0.0000	0	
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											
732.0000											
0.0000											
0.0000											
\$1,268.23											
0.0000											

33

B I L L O F L A D I N G

No: PEC 821234

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 07May13 at 14:18 From PFW
 Probill
 Via VIM TRANSPORT
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-563871- 1 Your PO # 19782
 STAINLESS STEEL SHEET 304-2B

.0480 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 C3200591 ✓ 177142

Quantity PCS Wt LBS
 128.00 SFT 4 246

MTR

2) Our Order PEC-563871- 2 Your PO # 19782
 STAINLESS STEEL SHEET 304-2B

.0250 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 YU167818 ✓ 177143

Quantity PCS Wt LBS
 64.00 SFT 2 62

MTR

3) Our Order PEC-563871- 3 Your PO # 19782
 ALUMINUM SHEET 5052-H32

.0320 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 114087 ✓ 177144

Quantity PCS Wt LBS
 96.00 SFT 3 46

MTR

4) Our Order PEC-563871- 4 Your PO # 19782
 ALUMINUM SHEET 5052-H32

.0400 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 B-10121197 ✓ 177146

Quantity PCS Wt LBS
 64.00 SFT 2 36

MTR

5) Our Order PEC-563871- 5 Your PO # 19782
 ALUMINUM SHEET 5052-H32

.0810 Nom X 48.0000" X 96.0000"

Heat Number Tag No
 S12080869 ✓ 177148

Quantity PCS Wt LBS
 64.00 SFT 2 72

MTR

Page: 1Continued

43/0/8

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVA/CST# 1407227084 TQ001 TDS/CST TVA/HST # 1407227084 RT0001

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

B I L L O F L A D I N G

No: PEC 821234
Ship Date 07May13 at 14:18 From PFW
Probill
Via VIM TRANSPORT
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest 3248
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G - REPRINT

6) Our Order PEC-563871- 6 Your PO # 19782

ALUMINUM SHEET 5052-H32

.0910 Nom X 48.0000" X 96.0000"

Heat Number
311100931

Tag No
177150

Quantity PCS
64.00 SFT 2

Wt LBS
80

7) Our Order PEC-563871- 7 Your PO # 19782

ALUMINUM SHEET 6061 T6

.0510 Nom X 48.0000" X 144.0000"

THIS ITEM IS BACK ORDERED

8) Our Order PEC-563871- 8 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.50" DIA X 144.0000"

Heat Number
35209-152

Tag No
176421

Quantity PCS
60 FT 5

Wt LBS
14

9) Our Order PEC-563871- 9 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

Heat Number
2132370

Tag No
176422

Quantity PCS
48 FT 4

Wt LBS
18

10) Our Order PEC-563871- 10 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.0000"

Heat Number
2133000

Tag No
176423

Quantity PCS
108 FT 9

Wt LBS
57

11) Our Order PEC-563871- 11 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.875" DIA X 144.0000"

Heat Number
21360256

Tag No
176424

Quantity PCS
36 FT 3

Wt LBS
25

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

B I L L O F L A D I N G

No: PEC 821234
Ship Date 07May13 at 14:18 From PFW
Probill
Via VIM TRANSPORT
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

	Tags	PCS	LBS
TOTAL:	10	36	656

Heat Number

*** Chemical Analysis ***

114087
201200839
21332570
21360256
35209-152
B-10121197
C3200591
S11100931
S12080869
YU167818

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 SKID, 1 BDL G.W. 733 LBS

ITEMS (1-6) SKID
ITEMS (8-11) BDL

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

***** TEL. 800-926-2600 *****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

Page: 3Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 821234

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 07May13 at 14:18 From PFW
Probill
Via VIM TRANSPORT
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 4 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

THYSSENKRUPP MATERIALS NA

PO/Rel 19782

DART AEROSPACE
STAINLESS STEEL SHEET 304-2B
0.480 Nom X 48.0000" X 96.0000"
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-821234-001
7May13
Pg 1/1

产品质量证明书 MATERIAL TEST CERTIFICATE

无锡宝昌金属制品有限公司
Wuxi Baichang Metal Products Co., Ltd

PAGE 2 OF 2

单号: EX1207157GS
货方: GLOBAL STAINLESS STEEL INC.
用家: GLOBAL STAINLESS STEEL INC.

品名: COLD ROLLED STAINLESS
Commodity: STEEL SHEET
标准: ASTM A240/A240M

牌号: 304
表面加工: 2B
Surface Finish

编号: EX1207157
Invoice No.
发行日期: 2012-9-17
Date

No. No.	货物编号 Product No.	产品尺寸 Product Size			数量 Number	重量 Weight Kg	拉伸试验 Tensile Test			表面 硬度 Hardness HV≤200	炉批号 HEAT NO.	化学成份 Chemical Composition (%)									
		厚度 Thickness MM	宽度 Width MM	长度 Length MM			屈服强度 0.2%YS N/mm ² 205	抗拉强度 TS N/mm ² 530	延伸率 EL %≥45			C	Si	Mn	P	S	Ni	Cr	N		
1	12091710	0.8	1219	2438	63	1136	303	616	56	180	C120683	0.0500	0.440	1.1000	0.0300	0.0020	8.0100	18.060	0.0437		
2	12091711	1.0	1219	2438	54	1114	273	693	56	170	A1200877	0.0400	0.360	1.1300	0.0370	0.0010	8.0100	18.090	0.0503		
3	12091712	1.2	1219	2438	55	1518	298	656	56	174	C3200591	0.0500	0.400	1.1300	0.0340	0.0020	8.0400	18.130	0.0420		
4	12091713	2.0	1219	2438	35	1495	291	630	60	141	C2206527	0.0400	0.400	1.1000	0.0370	0.0010	8.0600	18.240	0.0300		
5	12091714	2.5	1219	2438	26	1500	320	665	67.5	167	C2108891	0.0300	0.480	1.0900	0.0410	0.0020	8.0700	18.230	0.0400		
6																					
7																					
8																					
9																					
10																					

注 (Remarks):		尺寸和表面: 合格	
Size and Surface: Guaranteed			

兹证明所列产品均符合订单和标准的制造要求		技术本部	
WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE ORDER AND SPECIFICATION		TECHNICAL DEPT.	
*此报告仅可完全复制		T. 12091714	
*The report can only be copied completely		10.10.2014	

注 (Remarks):
尺寸和表面: 合格
Size and Surface: Guaranteed

兹证明所列产品均符合订单和标准的制造要求
WE HEREBY CERTIFY THAT THE MATERIAL HEREIN
HAS BEEN MADE IN ACCORDANCE WITH THE ORDER AND
SPECIFICATION
*此报告仅可完全复制
*The report can only be copied completely

技术本部
TECHNICAL DEPT.

王...
...

THYSSENKRUPP MATERIALS NA

PO/Rel 19782

STAINLESS STEEL SHEET 304-2B
0250 Norm X 48,0000" X 96,0000"
PART NO.

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-821234-002
7May13
Pg 1/1

YIEH MAU CORP.

INSPECTION CERTIFICATE

INVOICE NO. : F12M637
COMMODITY : PRIME COIL ROLLED STAINLESS STEEL SHEET

REFERENCE : AISI 304/304L ASTM A240/A480 ASME SA240/SA480
CUSTOMER : OLBERT METAL SALES LIMITED

CERTIFICATE NO: F12MA37
DATE OF ISSUE: 04/03/2012
PAGE: 1

NO. 346, SHAN-AN RD., LUZHU DIST.,
KAOHSIUNG CITY 821, TAIWAN, (R.O.C.)
TEL NO: 886-7-697-6266
FAX NO: 886-7-697-3006

SIZE	NO. of Product	Weight in KG	Heat No.	ID No.	Mechanical Properties					Chemical Composition (%)							
					Y.S.	T.S.	EL.	HRB	HV	C	Si	Mn	P	S	Ni	Cr	N
					(N/mm ²)	(N/mm ²)	(%)			x 100	x 100	x 100	x 1000	x 1000	x 100	x 100	x 100
304/304L 2B PI	1	1,616	YU169459	12S44578A-11	304	645	51	85	173	2.1	43	141	39	11	801	1810	4.1
11GA X 48" X 96"	1	1,688	YU168459	12S44578A-12	304	645	51	85	173	2.1	43	141	39	11	801	1810	4.1
11GA X 48" X 120"	1	1,684	YU122543	12S74677B-11	324	664	52	88	183	2.8	50	110	34	4	805	1834	5.4
12GA X 48" X 96"	1	1,680	YU122543	12S74677B-12	324	664	52	88	183	2.6	50	110	34	4	805	1834	5.4
12GA X 48" X 120"	1	1,716	YU169558	17S52150A-11	302	620	57	85	171	2.4	41	141	37	3	807	1800	3.8
12GA X 96" X 120"	1	1,707	YU122544	12S74666A-1	336	673	51	89	188	2.2	50	97	37	2	801	1821	5
14GA X 48" X 96"	1	1,691	YU122541	12S74666A-2	336	673	51	89	188	2.2	50	97	37	3	801	1821	5
14GA X 48" X 120"	1	1,625	YU124017	16S70152B-1	300	650	55	84	167	2.4	54	113	31	3	801	1801	4.6
16GA X 48" X 120"	1	1,704	YU168458	12S44558B-1	292	658	48	80	154	2.2	44	154	40	9	803	1802	3.8
16GA X 48" X 96"	1	1,700	YU168458	12S44558B-2	292	658	48	80	154	2.2	44	154	40	9	803	1802	3.8
18GA X 60" X 120"	1	1,617	YU168919	13S43801A-1	303	654	49	83	166	2.6	40	141	36	7	813	1816	3.9
18GA X 60" X 120"	1	1,696	YU119710	04S72667B-21	308	686	50	86	175	3	62	108	36	4	806	1818	5.4
18GA X 60" X 120"	1	1,623	YU263612	12S44502B-1	291	680	51	81	158	1.7	49	139	39	6	805	1812	4
20GA X 60" X 120"	1	1,642	YU263612	17S52201B-1	297	635	59	82	159	2.1	39	125	31	5	804	1816	4.7
22GA X 48" X 120"	1	1,718	YU262750	DCS37132B-21	283	642	55	81	156	1.9	44	115	34	4	804	1811	3.6
24GA X 48" X 96"	1	1,711	YU167818	DCS39412B-21	291	659	50	82	161	2	40	149	36	5	802	1809	4

Item No. : 16 26808
NO MERCURY CONTAMINATION
WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS
BEEN MADE IN ACCORDANCE WITH THE RULES OF THE MILL CERTIFICATE.

THE COUNTRY OF MELT AND MANUFACTURE: TAIWAN

YIEH MAU CORP.

Li Kuan Shing
Manager of Quality Assurance Section

1732

ZHENGZHOU MINGTAI INDUSTRY CO., LTD
 CHANGCHUN ROAD NO.6, HIGH AND NEW TECHNOLOGY ZONE,
 ZHENGZHOU HENAN CHINA
 TEL: +86-371-67898715 FAX: +86-371-67898612

MILL TEST CERTIFICATE

TO: **OLBERT METAL SALES LIMITED**
 989 DERRY RD. EAST, SUITE 305 MISSISSAUGA,
 ONTARIO CANADA L5T 2J8

INVOICE NO.: ZOTO110601
 CONTRACT NO: 1732/1704/1720
 LOADING PORT: QINGDAO, CHINA
 DESTINATION: TORONTO, CANADA
 SHIPPING MARKS: N/M
 DATE: JUN. 29, 2011
 DESCRIPTION OF GOODS:
 ALUMINUM SHEET 5052 H32 CERTIFIED
 TO ALL AA, ASTM B209, AMS/QQA 250/B, AMS 4016L SPECS.
 ALUMINUM SHEET 3003 H14 CERTIFIED TO ALL AA,
 ASTM B209, AMS/QQA 250/2, AMS 4008 SPECS.
 CIF TORONTO, REF: 1732/1704/1720

JM 13-105/08
S, 3105/08

CHEMICAL COMPOSITION

Heat No.	Alloy	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Others	Al
112474	5052	0.098	0.318	0.01	0.065	2.221	0.007	0.014	0.198	0.15	REMAINDER
113780	5052	0.083	0.298	0.021	0.087	2.406	0.023	0.021	0.228	0.15	REMAINDER
114087	5052	0.122	0.318	0.013	0.085	2.215	0.009	0.016	0.197	0.15	REMAINDER
114114	5052	0.102	0.325	0.012	0.049	2.257	0.008	0.01	0.185	0.15	REMAINDER
114115	5052	0.108	0.298	0.009	0.055	2.26	0.007	0.016	0.188	0.15	REMAINDER
B11051024	3003	0.116	0.453	0.0968	1.1	0.0062	0.0107	0.0379	/	0.15	REMAINDER
D1105031	3003	0.122	0.483	0.0937	1.07	0.0095	0.0088	0.0319	/	0.15	REMAINDER
D1105084	3003	0.118	0.422	0.0921	1.06	<0.0050	0.0082	0.0306	/	0.15	REMAINDER
D1105130	3003	0.119	0.47	0.0847	1.13	<0.0050	0.0085	0.036	/	0.15	REMAINDER

MECHANICAL PROPERTY

Heat No.	Alloy	Temper	Specs(In)	Tensile strength (Mpa/ ksi)	Elongn %
112474	5052	H32	0.188*48*120	203	29
113780	5052	H32	0.188*48*120	204	30
114087	5052	H32	0.032*48*120/96	228	33
114114	5052	H32	0.125*48*120/96	213	31
114115	5052	H32	0.188*60*144/120	182	26
B11051024	3003	H14	0.08*60*120	170	25
D1105031	3003	H14	0.25*48*96	169	25
D1105084	3003	H14	0.25*48*120	169	25
D1105130	3003	H14	0.188*48*96/120	167	24

PRODUCER: ZHENGZHOU MINGTAI INDUSTRY CO., LTD

ZHENGZHOU MINGTAI INDUSTRY CO., LTD.
 郑州明泰实业有限公司

1732

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 5052-H32
 .0400 Nom X 48.0000" X 96.0000"
 PART NO.

PO/Rel 19782

We certify that this is a true copy of the report
 furnished by the producer of the metal, or data
 resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-821234-004

7May13

Signed by: _____

Pg 1/2

1455

HENAN MINGTAI AL. INDUSTRIAL CO., LTD

HUIGUO ZHEN, GONGYI, HENAN, CHINA 451283

TEL: 371-67898611 FAX: 371-67898612

MILL TEST CERTIFICATE

TO: OLBERT METAL SALES LIMITED
 989 DERRY RD. EAST, SUITE 305 MISSISSAUGA,
 ONTARIO CANADA L5T 2J8

INVOICE NO.: OMTR110102
 CONTRACT NO.: OMMT110102
 LOADING PORT: QINGDAO, CHINA
 DESTINATION: TORONTO, CANADA
 SHIPPING MARKS: N/M
 DATE: JAN, 26, 2011

Jm 13/05/08
5.3 10508

DESCRIPTION OF GOODS:

ALUMINUM SHEETS ALLOY 3003 H14 TO ASTM B209 AND ALUMINUM ASSOCIATION SPECS.
 5052 H32 SHEETS TO ASTM B209, AMS 4016 AND ALUMINUM ASSOCIATION SPECS.
 REFERENCE 1685, 1653 CIF TORONTO, CANADA

CHEMICAL COMPOSITION											
Heat No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Al
B10121217-1	5052	0.092	0.290	0.007	0.059	2.290	0.203	0.009	0.012	0.15	REMAINDER
B10121217-2	5052	0.092	0.290	0.007	0.059	2.290	0.203	0.009	0.012	0.15	REMAINDER
B10121197	5052	0.087	0.321	0.007	0.057	2.311	0.201	0.009	0.009	0.15	REMAINDER
B10121214	5052	0.092	0.346	0.007	0.045	2.290	0.197	0.008	0.013	0.15	REMAINDER
B10121214	5052	0.092	0.346	0.007	0.045	2.290	0.197	0.008	0.013	0.15	REMAINDER
B10121198	5052	0.098	0.334	0.007	0.074	2.293	0.188	0.009	0.012	0.15	REMAINDER
B10121196	5052	0.103	0.351	0.007	0.052	2.236	0.225	0.008	0.012	0.15	REMAINDER
B10121195	5052	0.107	0.324	0.007	0.050	2.225	0.245	0.007	0.013	0.15	REMAINDER
B10121215	5052	0.103	0.359	0.009	0.063	2.270	0.207	0.007	0.014	0.15	REMAINDER
B10121134	5052	0.128	0.387	0.018	0.057	2.231	0.183	0.009	0.020	0.15	REMAINDER
B10121134	5052	0.128	0.387	0.018	0.057	2.231	0.183	0.009	0.020	0.15	REMAINDER
D1012134	5052	0.117	0.356	0.018	0.040	2.285	0.209	0.009	0.007	0.15	REMAINDER
D1012134	5052	0.117	0.356	0.018	0.040	2.285	0.209	0.009	0.007	0.15	REMAINDER
D1012135	5052	0.120	0.345	0.019	0.045	2.249	0.193	0.008	0.013	0.15	REMAINDER
D1012136	5052	0.127	0.399	0.014	0.050	2.228	0.215	0.010	0.011	0.15	REMAINDER
D1012119	3003	0.0835	0.444	0.0753	1.07	0.0097	/	0.0101	0.0324	0.15	REMAINDER
105084	3003	0.302	0.519	0.060	1.088	0.048	0.005	0.029	0.032	0.15	REMAINDER
105089	3003	0.330	0.503	0.069	1.031	0.025	0.005	0.029	0.031	0.15	REMAINDER
105090	3003	0.301	0.598	0.059	1.085	0.044	0.005	0.022	0.031	0.15	REMAINDER
MECHANICAL PROPERTY											
Heat No.	Alloy	Temper	Specs(in)		Tensile strength (Mpa/ ksi)				Elong %		

Next Page 5 →

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 5052-H32
 .0400 Nom X 48.0000" X 96.0000"
 PART NO.

PO/Rel 19782

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Certificate of Mill Test Results

BL PEC-821234-004

7May13

Signed by: _____ Pg 2/2

B10121217-1	5052	H32	0.08*48*120	226	33	13
B10121217-2	5052	H32	0.063*48*120	226	33	13
B10121197	5052	H32	0.04*48*96	225	33	14
B10121214	5052	H32	0.05*48*96	224	32	14
B10121214	5052	H32	0.04*48*96	224	32	14
B10121198	5052	H32	0.05*48*96	225	33	13
B10121196	5052	H32	0.063*48*96	226	33	14
B10121195	5052	H32	0.08*48*96	224	32	13
B10121215	5052	H32	0.125*48*144	223	32	14
B10121134	5052	H32	0.125*60*96	225	33	13
B10121134	5052	H32	0.125*60*120	225	33	13
D1012134	5052	H32	0.188*48*120/96	224	32	13
D1012135	5052	H32	0.188*48*144	224	32	14
D1012136	5052	H32	0.25*48*96	223	32	14
D1012119	3003	H14	0.188*48*96	167	24	22
105084	3003	H14	0.125*48*96	178	26	20
105089	3003	H14	0.08*60*120	177	26	18
105090	3003	H14	0.125*60*120	170	25	10

PRODUCER: HENAN MINGTAI AL INDUSTRIAL CO., LTD

HENAN MINGTAI AL INDUSTRIAL CO., LTD
 河南明泰铝业股份有限公司

付 磊

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 5052-H32
 .0810 Nom X 48.0000" X 96.0000"
 PART NO.

PO/Rel 19782

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Certificate of Mill Test Results

BL PEC-821234-005

7May13

Pg 1/1

Signed by: _____

1803

(3)

MILL TEST CERTIFICATE	No: 14769 Date: 9/12/2012	CERTIFIED SRAC-IQNet ISO 9001:2008 No. 10/4-2011	vimetco SLATINA
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CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 1803

BILL OF DELIVERY : 80142842

TRUCK/CONTAINER : MSCU 5523896

MATERIAL : ALUMINUM SHEETS

ALLOY : 5052

DIMENSIONS(mm)

: 80019471

: 80019472

0.064"THX48"WDX120"LT

0.08"THX48"WDX96"LT

TEMPER: H32

ACCORDING TO : ASTM B209; AMS 4016L; ANSI H35.2

ACTUAL MECHANICAL PROPERTIES 1 MPa = 1 N/mm² = 0.145 ksi = 0.102 kgf/mm²

1 lbs = 0.4536 kg			UTS		YTS	Elong. %	Hardness*
			KSI		KSI	50mm	HB
			min.	max.	min.	max.	min.
Specified values:			31	38	23	7	
LOT / BATCH	CASE	NET WEIGHT lbs	Measured values:				
80019471	111374;111376;	15,824.794	31.6		23	16	
S12080872	111452;111454		31.8		23.1	15	
80019472	111456;111458	6,957.795	34		26.8	14	
S12080869			33.8		26.7	14	

ACTUAL CHEMICAL ANALYSIS %

BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S12080872	0.1	0.16	0.013	0.065	2.27	0.19	0.003	0.006	0.018	0.007	0.013	REM.
S12080869	0.09	0.19	0.011	0.046	2.43	0.2	0.004	0.005	0.012	0.008	0.013	REM.
Acc. Standard	Min.				2.2	0.15						REM.
	Max.	0.25	0.4	0.1	2.8	0.35	0.05	0.1	0.05	0.05	0.05	REM.
Remarks:						Other-Each- Max.: 0.05			OthersTotal- Max.: 0.16			

REMARKS:

ACCORDING TO ASTM B209,2010; AMS 4016L 2006; ANSI H35.2 2009

* Typical value, for information only.

We hereby certify that the material detailed hereon has been produced and tested according to the requirements of the relevant specification and/or order. Keep in dry conditions, without large temperature variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminium Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1507/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labelling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.
 Bogdan Sorocobu, Eng.

ALRO S.A. SLATINA
 Punct de lucru Slatina
 Str. Micey Nr.1, Jud.Olt
 Serv. Instructia Calitati

ALRO S.A. No.116, Pitești Street Phone: +40(0) 0249 435 117; 0249 432 956 alro@alro.ro
 230048-Slatina-ROMANIA Fax: (40) 0249 411 487; 0249 415 992 www.alro.ro

cod FI/PO-551/Rev.2/2011

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM SHEET 5052-H32
.0910 Nom X 48.0000" X 96.0000"
PART NO.

PO/Rel 19782

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resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-821234-006

7May13

Signed by: _____

Pg 1/1

1750

MILL TEST CERTIFICATE	No: 16872 Date: 11/7/2011	CERTIFIED BRAC-40N# ISO 9001/2008 No. 10/4-2011	vimetco SLATINA
--------------------------	------------------------------	--	--------------------

CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 1750
BILL OF DELIVERY : 80114149
TRUCK/CONTAINER : MSCU 5609573

MATERIAL : ALUMINUM SHEETS
ALLOY : 5052
DIMENSIONS (mm) : 80015709 : 0.080"THX48"WDX96"LT
80015713 : 0.100"THX48"WDX120"LT
ACCORDING TO : ASTM B209; ANSI H35.2

TEMPER: H32

JM13/05/08
S13/05/08

ACTUAL MECHANICAL PROPERTIES							1 MPa = 1 N/mm ² = 0.145 ksi = 0.102 kgf/mm ²			
1 lbs = 0.4536 kg			UTS		YTS		Elong. %		Hardness*	
			KSI		KSI		50mm		HB	
			min.	max.	min.	max.	min.	max.	min.	max.
Specified values:			31	38	23		7			
LOT / BATCH	CASE	NET WEIGHT lbs	Measured values:							
80015709 S11100931	83060;83062; 83064;83066; 83068;83070	16,980.017	34.4		26.8		14			
			34.1		26.4		14			
80015713 S11100929	83308	2,204.624	33.2		25.6		14			
			33.7		26		13			
ACTUAL CHEMICAL ANALYSIS %										
BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
S11100931	0.08	0.27	0.007	0.018	2.42	0.2	0.003	0.006	0.009	REM.
S11100929	0.08	0.27	0.008	0.021	2.37	0.17	0.003	0.004	0.012	REM.
Min.					2.2	0.15				REM.
Max.	0.25	0.4	0.1	0.1	2.8	0.30	0.05	0.1	0.05	0.05
Remarks:						Other- Each- Max.: 0.05			Others Total- Max.: 0.15	

REMARKS:

ACCORDING TO: ASTM B209; 2010; ANSI H35.2:2009

* Typical value, for information only.

We hereby certify that the material detailed hereon has been produced and tested according to the requirements of the relevant specification and/or order. Keep in dry conditions, without large temperature variations. The differences between metal and air must be max. 11 degrees C.

Also we certify that the material respects HS 1072 and does not endanger life, health, job security (if handled properly) have no negative impact on the environment.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.

ALRO S.A. No. 116, Pitești Street, Phone: +(40) 0248 435 117; 0249 432 556 alro@alro.ro
230048-Slatina-ROMANIA Fax: (40) 0249 411 487; 0249 415 992 www.alro.ro

cod 1: PO-051/Rev.2/2011

S. CALKO S.A. SLATINA
Pucioasa Iud. Slatina
Str. Pucioasa Nr. 116, Jud. Olt
Ier. CTC Slatina
Al. Pucioasa

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.50" DIA X 144.0000"

PART NO.

PO/Rel 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-821234-008

7May13

Pg 1/2

Signed by: _____

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-243267-9		CUSTOMER PART NUMBER: ALRD00177		PRODUCT DESCRIPTION: 0.500 +/- .005 ROD	
KAISER ORDER NUMBER: 631038	LINE ITEM: 009	SHIP DATE: 11/02/2012	KAISER LOT NUMBER: 35209-152	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 976.000 LB	QUANTITY: 352.000 PCS	B/L NUMBER: 604800	DIA/DIAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
35209-152	0001	1	46.2	41.5	15.0	RE 90	N/A	N/A
35209-152	0001	2	57.7	43.4	14.7	RE 91	N/A	N/A
35209-152	0001	3	47.1	43.1	12.5	RE 92	N/A	N/A
35209-152	0001	4	46.1	42.4	12.8	RE 92	N/A	N/A
35209-152	0001	5	47.0	42.9	12.3	RE 92	N/A	N/A
35209-152	0001	6	43.6	39.5	12.5	RE 92	N/A	N/A
35209-152	0001	7	43.1	38.0	12.8	RE 92	N/A	N/A
35209-152	0001	8	42.6	37.6	12.3	RE 92	N/A	N/A
35209-152	0001	9	44.2	40.0	16.6	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H43C02	.73	.44	.21	.09	.90	.10	.06	.02	.01	.01	.00	.01	.03
H42969	.74	.46	.21	.09	.89	.08	.09	.02	.01	.01	.00	.01	.03

Applicable Requirements:

ASTM-B221-12 NON-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) JNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA

Jm
13/05/08
15/05/08

Plant Serial: 00065436

Kaiser Order Number: 631038

Line Item: 009

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.50" DIA X 144.0000"

PART NO.

PO/Rel 19782

We certify that this is a true copy of the report
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Certificate of Mill Test Results

BL PEC-821234-008

7May13

Signed by: _____

Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager

Calvin Latting

Plant Serial: 00065436

Kaiser Order Number: 631038

Line Item: 009

Page 2 of 2

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
6.25" DIA X 144,000"
PART NO.

P.O./Rel 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-821234-009

7May13
Pg 1/3

Signed by:

sapa:

Sapa Industrial Extrusions
53 POTTSVILLE STREET

CRESSONA, PA
17926-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTARF ROAD
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTARF ROAD

CONCORD, ON - L4K 5C6

Certified Inspection Report

Sales Order Number	Line No.	Customer PO	Cert Number	Page
1100578945	2	PEC-24651-002	SAPA72479	1 of 3
Quantity Shipped	Date Shipped	Item Description	Spec	Page
2028	07-MAR-13	Formed ACC-U-LINE	ASTM B221 REV 12A	
408413	030967413	FIN M-MILL	SAE J454 REV	
4406197	07-MAR-13	FIN M-MILL	SAE J454 REV	
6251ER4		FIN M-MILL	SAE J454 REV	

1305/08

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for "Others Each" and "Others Total" have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

William T. Martin, III

07-MAR-13

William Martin III
Tech/Quality Manager

Legal Statement
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal constituent in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Package Number	Lot Number	Quantity	UOM	Weight	Net
G12-PKG1880875	21332570	117	PCS	513	507
G12-PKG1880875	21332570	117	PCS	513	507
G12-PKG1880899	21332570	117	PCS	513	507
G12-PKG1880899	21332570	117	PCS	513	507
G12-PKG1880899	21332570	117	PCS	513	507

Composition Limits

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
.625" DIA X 144.0000"
PART NO.

PO/Rel 19782

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Signed by:

Certificate of Mill Test Results

BL PEC-821234-009

7May13
Pg 2/3

sapa

Sapa Industrial Extrusions
53 PORTSVILLE STREET
CRESSONA, PA
17929-0187

Certified Inspection Report

Sales Order Number Line No. 2
1100578945
Customer P/O PEC-246511-002

Cert Number Page
SAPV725479 2 of 3
Cert Creation Date 07-MAR-13
Cert Print Date 07-MAR-13

Alloy	Si		Fe		Cu		Mn		Mg		Zn		Ti		Al		Pb		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	---	0.70	---	0.15	0.40	---	0.15	0.80	1.20	0.04	0.35	---	0.25	---	---	---	---	---	---	---
Alloy	Ti		Pb		Others Each		Others Total		Zn		Ti		Al		Pb		Others Each		Others Total		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	0.05	---	0.05	---	0.05	---	0.05	---	0.15	---	---	---	---	---	---	---	---	---	---

Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Pb	Others Each	Others Total
3001481	0.69	0.33	0.32	0.06	0.87	0.06	0.03	0.02	---	---	---	---
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Pb	Others Each	Others Total
3031050	0.74	0.32	0.32	0.09	0.89	0.04	0.03	0.02	---	---	---	---

Mechanical Property - Test Limits

Test Type		TYS - L		EL AD LONG	
UOM		KSI		PCT	
# of Test		MIN Value		MAX Value	
Test Temper	Lot Number	TYS - L		EL AD LONG	
UOM		KSI		PCT	
76511H	2132570	8	43.6	46.4	15.7
76511H	2134641	6	46.0	47.2	15.3

Cont Notes

THYSSENKRUPP MATERIALS NA

PO/Rel 19782

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
.625" DIA X 144.0000"

PART NO.

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
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Signed by: _____

Certificate of Mill Test Results
BL PEC-821234-009
7May13
Pg 3/3

sapa

Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRENSHAW, PA
17929-0187

Certified Inspection Report

Sales Order Number
1100578945

Line No.
2

Customer P/O
PEC-246511-002

Cert Number

SAPA725479

Cert Creation Date

07-MAR-13

Page

3 of 3

Cert Print Date

07-MAR-13

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per Refs, with the exception of 6262 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Made in the USA or Other Qualified Countries as Defined by DEARS 324.872.1

Made in USA

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
750" DIA X 144,000"
PART NO.

PO/Rel 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-821234-010
7May13
Pg 1/2



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
168561	2

BILL TO: ThyssenKrupp Materials NA
SHIP TO: ThyssenKrupp Materials NA PEC
Quantity Certified: 1,611 lbs 258 pcs
MANIFEST NUMBER: 181164
CUSTOMER PO: PEC-246609
CUSTOMER PART NUMBER: RD0003
DATE OF SHIPMENT: 2/8/2013
SALES PERSON: David Schroeder
ALLOT/TEMPER: 6061-T6511
DESCRIPTION: Lighting Rod Tite 0.750 +.004-.003

CERTIFICATION: ASTM-B221-12a StencilCont
SPECIFICATION: AMS-QQA-200/8

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
91	201300839	01/21/13	51.4	49.3	15.3
92	201300839	01/21/13	51.2	48.8	13.2
93	201300839	01/21/13	51.1	49.1	15.6
94	201300839	01/21/13	54.1	52.2	16.7
95	201300839	01/21/13	52.8	52.1	16.8
96	201300839	01/21/13	51.8	50.7	16.6
97	201300839	01/21/13	51.6	49.3	16.9
98	201300839	01/21/13	51.3	47.8	15.3
99	201300839	01/21/13	50.6	48.8	13.0
100	201300839	01/21/13	52.1	49.3	15.0
101	201300839	01/21/13	51.7	49.1	11.8
102	201300839	01/21/13	51.6	49.5	16.9
103	201300839	01/21/13	51.9	49.8	15.6
104	201300839	01/21/13	50.5	48.2	12.1
105	201300839	01/21/13	51.5	49.4	12.6

03/05/09

Print Date: 2/8/2013

Calvin J. Wiggins, Director of Quality & Technical Services

REV 502371-UNIS

THYSSENKRUPP MATERIALS NA

PO/Rel 19782

Certificate of Mill Test Results

BL PEC-821234-010

7May13
Pg 2/2

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
750" DIA X 144,000"
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

ORDER NUMBER	ITEM
168561	2

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
ThyssenKrupp Materials NA	181164	RD0003	2/8/2013
SHIP TO	CUSTOMER PO	ALLOY/TEMPER	SALESPERSON
ThyssenKrupp Materials NA PEC	PEC-245609	6061-T6511	David Schroeder
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION	
1,611 lbs 258 pcs	RD0003	Lighting Rod T16 0.750 + .004/- .003	

CERTIFICATION
ASTM-B221-12a StencilCont
SPECIFICATION
AMS-QCA-200/8

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Others	Melt Source:
122326	6061	0.75	0.36	0.32	0.11	0.87	0.17	0.06	0.02	97.34	0.05	0.15		United States of America

Print Date: 2/8/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
8.75" DIA X 144.000"
PART NO.

PO/Rel 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-821234-011
7May13
Pg 1/2

sapa

Sapa Industrial Extrusions
53 POTTSTOWN STREET
CRENSHAW, PA
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa Al

Invoice To Customer
THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K5C6

Ship To Customer
THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD

CONCORD, ON - L4K5C6

Certified Inspection Report

Sales Order Number 1100836086 Line No. 2 Customer P/O PEC-247019-002 Cert Number SAPA736517 Page 1 of 2
Cert Creation Date 26-MAR-13 Cert Print Date 26-MAR-13

Quantity Shipped	Date Shipped	Item Description	Specification
1052 LB	26-MAR-13	ACC-U-LINE Extended ACC-U-ROD 0.875 DIA +/- .003 SHT 555330 144,000 IN LN BIN M-MILL W/F .007 F 4 CS .88 6061/T6511H Marking CONTINUOUS	ASTM B221 REV 12A AMS-QQ-A-2008 REV 1997 ASME B221 REV 09 UNS#A96061 REV SAEN451 REV Meets 6061-T6511H, 6061-T6511 REV
41,3962	03/30/2013	Item No.	
Delivery #1	Item No. Rev		
4411925			
Customer Part No.			
.875ER+			

Applicable Specifications, Revisions and Exceptions
COMPOSITION NOTE: The values for "Others Each" and "Others Total" have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal constituent in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title
William T. Martin, III
William Martin III
Tech/Quality Manager
26-MAR-13

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight
G12-PCG1904737	21360256	62	PCS	532
G12-PCG1904744	21360256	62	PCS	532
				526

Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.30	0.80		0.70	0.15	0.40		0.15	0.80	1.20	0.04	0.25

8/3/05/08

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
 ALUMINUM ROUND BAR 6061-T6S11
 .875" DIA X 144.0000"
 PART NO.

PO/Ref 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results
 BL PEC-821234-011
 7May13
 Pg 2/2



Sapa Industrial Extrusions
 53 POTTSVILLE STREET
 CRESSONA, PA
 17929-0187

Certified Inspection Report

Sale Order Number	Line No.	Customer P/O	Cert Number	Page
1100586086	2	PEC-267019-002	SAPA736517	2 of 2
			Cert Creation Date	Cert Print Date
			26-MAR-13	26-MAR-13

Alloy	Ti		B1		Pb		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	0.05	---	0.05	---	0.05	---	0.15

Composition Results											
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	B1	Pb	Others Each
5031187	0.72	0.42	0.29	0.07	0.89	0.07	0.07	0.02	---	---	Others Total

Mechanical Property - Test Limits

Test Type				TYS - L				E1, 4D-Long			
TOM				KSI				PCT			
Test Temper	Lot Number	# of Tests		MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6S1111	21360256	7		44.6	46.4	40.0	42.9	15.7	16.9		

Cert Notes

Products manufactured with a T6S11 temper also meet T6 temper requirements.
 Yield strength has been determined by the U.2% offset method.
 All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy.
 In accordance with EN 10204 Inspection Certificate Type 3.1
 Metel in the USA or Other Qualified Countries as Defined by DEKAS 225.872.1
 Made in USA



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19782

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 1 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name
Vendor Phone 905 669 9444
Vendor Fax 905 738 9033
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
613 632 1053

M125552

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M2024T3S.063	2024-T3 .063 sheet	5/10/13 Yes	384.00 sf	Yours ppd	\$3.7500	\$1,440.00
		Special Request: MATERIAL: 2024-T3 ALUMINUM SHEET QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209					
2	M2024T3S.080	2024-T3 .080 sheet	5/10/13 Yes	96.00 sf	Yours ppd	\$4.5417	\$436.00 ✓
		Special Request: MATERIAL: 2024-T3 ALUMINUM SHEET QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209					
3	M304S18GA 4	304/316 .050 Shc	5/10/13 Yes	128.00 sf	Yours ppd ✓ 4/31/13	\$3.2812	\$420.00 ✓

PO Instructions: NO: PEC ST-562891
NO: PEC ST-563125

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required YES NO

Change Nbr: 2

Change Date: 5/03/13



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

up Date

Purchase Order ID PO19782

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 2 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency CAD

FOB Destination-Collect

Special Inst:

MATERIAL: AISI 304/316 SS SHEET
ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR
AMS 5524 (316)
OR ASTM A240 OR ASME SA240

4 M304S24GA

304/316 .025 Sheet

5/10/13

Yes

64.00 Yours ppd
sf

\$2.0728

\$132.66

Special Inst:

MATERIAL: AISI 304/316 SS SHEET
ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR
AMS 5524 (316)
OR ASTM A240 OR ASME SA240

5 M5052H32S.032

5052-H32 .032 Sheet

5/10/13

Yes

96.00 Yours ppd
sf

\$1.0156

\$97.50

Special Inst:

MATERIAL: AISI 304/316 SS SHEET
ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR
AMS 5524 (316)
OR ASTM A240 OR ASME SA240

6 M5052H32S.040

5052-H32 .040 Sheet

5/10/13

Yes

64.00 Yours ppd
sf

\$1.0938

\$70.00

Special Inst:

MATERIAL: 5052-H32 ALUMINUM
SHEET AS PER
QQ-A-250/8 OR AMS-QQ-A-250/8 OR
AMS 4016
OR ASTM B209

PO Instructions: NO: PEC ST-562891
NO: PEC ST-563125

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required (YES) NO

Change Nbr: 2

Change Date: 5/03/13



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19782

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 3 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

7	M5052H32S.080	5052-H32 .080 Sheet	5/10/13 Yes	64.00 sf	Yours ppd 10	\$2.2812	\$146.00	✓
	2							
		Special Inst:	MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209					
8	M5052H32S.090	5052-H32 .090 Sheet	5/10/13 Yes	64.00 sf	Yours ppd h	\$2.5625	\$164.00	✓
	2							
		Special Inst:	MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209					
9	M6061T6S.050	6061-T6 .050 Sheet	5/10/13 Yes	144.00 sf	Yours ppd	\$1.9792	\$285.00	✓
		Special Inst:	MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209					
10	M6061T6R0.500	6061-T6 Round Bar .500	5/10/13 Yes	60.00 f	Yours ppd 10/13/14	\$0.8500	\$51.00	✓
	5							

PO Instructions: NO: PEC ST-562891
NO: PEC ST-563125

Change Nbr: 2

Change Date: 5/03/13

No substitution or deviation without
consent.
Certificate of Conformity of Material
Certification required - YES NO



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19782

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 4 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL:6061-T6 (OR 6061-T651/
T6510/ T6511/ T62) ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR
(AMS 4117/4128/4115/4116)
OR QQ-A-200/8OR AMS-QQ-A-200/8)OR
AMS 4160)
OR ASTM B211 OR ASTM B221

11 M6061T6R0.625

6061-T6 Round Bar .625"

5/10/13

Yes

48.00 Yours ppd

f

\$0.7700

\$36.96 ✓

Special Inst:

MATERIAL:6061-T6 (OR 6061-T651/
T6510/ T6511/ T62) ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR
(AMS 4117/4128/4115/4116)
OR QQ-A-200/8OR AMS-QQ-A-200/8)OR
AMS 4160)
OR ASTM B211 OR ASTM B221

12 M6061T6R0.750

6061-T6 Round Bar .750"

5/10/13

Yes

108.00 Yours ppd

f

\$1.0200

\$110.16 ✓

Special Inst:

MATERIAL:6061-T6 (OR 6061-T651/
T6510/ T6511/ T62) ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR
(AMS 4117/4128/4115/4116)
OR QQ-A-200/8OR AMS-QQ-A-200/8)OR
AMS 4160)
OR ASTM B211 OR ASTM B221

13 M6061T6R0.875

6061-T6 Round Bar .875"

5/10/13

Yes

36.00 Yours ppd

f

\$1.3722

\$49.40 ✓

PO Instructions:

NO: PEC ST-562891
NO: PEC ST-563125

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required (YES) NO

Change Nbr:

2

Change Date:

5/03/13



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO19782**

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 5 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL:6061-T6 (OR 6061-T651/
T6510/ T6511/ T62) ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR
(AMS 4117/4128/4115/4116)
OR QQ-A-200/8OR AMS-QQ-A-200/8)OR
AMS 4160)
OR ASTM B211 OR ASTM B221

PO Total:

\$3,438.68

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

PO Instructions:

NO: PEC ST-562891
NO: PEC ST-563125

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required **YES** NO

Change Nbr:

2

Change Date: 5/03/13